

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of claims:

Claims 1-54. (Canceled)

Claim 55. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim ~~[[68]]~~56, wherein said curing agent is selected from ~~[[a]]~~ the group consisting of urea derivatives, imidazoles, dicyandiamide, their precursors and~~[[/or]]~~ any mixture thereof.

Claim 56. (Currently amended) A micron liquid thermosetting ink-jet ink, comprising:

(a) at least one solid latent curing agent comprising an inert filler comprising barium sulfate, the inert filler being treated with a latent curing agent; said inert filler having a maximal particle size of less than 2 microns and optionally being porous; said latent curing agent being precipitated as a layer on said inert filler or being precipitated in the form of small crystals onto said inert filler surface and/or inside the internal porosity of said inert filler; and

(b) one or more epoxy resins;

said ink-jet ink being characterized by a viscosity lower than 50 Cps at application temperature; a surface tension lower than 80 dyn/cm at application temperature; and a glass transition temperature, in the cured form, of greater than 120°C

~~The liquid thermosetting ink-jet ink according to claim 68, wherein said inert filler is selected from a group consisting of barium sulfate, talc, silica, kaolin, mica and glass.~~

Claim 57. (Canceled)

Claim 58. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim ~~[[68]]~~56, wherein the one or more epoxy resins are selected from the group consisting of hydrogenated bisphenol S epoxy resins, heterocyclic epoxy resins, bisphenol A epoxy resins, hydrogenated bisphenol A epoxy resins, bisphenol F epoxy resins, Novolak epoxy resins, Novolak epoxy resins of bisphenol A, ~~[[or]]~~ and any mixture thereof.

Claim 59. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim ~~[[68]]~~56, additionally comprising monomers and/or oligomers selected from styrene~~[[,]]~~; acrylic or methacrylic acid and esters thereof; acrylated or methacrylated epoxies; and acrylated or methacrylated urethanes.

Claim 60. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim ~~[[68]]~~56, adapted for solder mask in printed circuit boards.

Claim 61. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim ~~[[68]]~~56, ~~especially~~ adapted for bonding devices or components in electronic manufacturing.

Claim 62. (Currently amended) The liquid micron thermosetting ink-jet ink according to claim ~~[[68]]~~56, adapted for printing of layers in the manufacturing of passive component capacitors and/or resistors.

Claim 63. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim ~~[[68]]~~56, adapted for direct printing of conductive lines and features such as pads and/or bumps.

Claim 64. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim ~~[[68]]~~56, additionally comprising impact modifiers and/or flexibilizers having rubbery moieties or blocks in their chain.

Claim 65. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim 64, wherein the impact modifiers and/or flexibilizers are selected from amines, epoxy, ~~hydroxyls~~, terminated rubbers or rubber-like compositions comprising polybutadienes, polyisoprenes, polysulfides, polyurethanes, hydrogenated polybutadienes and/or polyisoprenes, ethylene-propylene copolymers, soft polyacrylate esters, polydimethyl siloxane, ~~zirconate~~, ~~titanate~~, ~~aluminate~~ or any mixture thereof.

Claim 66. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim ~~[[68]]~~56, additionally comprising mineral fillers, having a maximal particle size of about 2 microns in the final ink-jet ink; wherein the concentration of mineral fillers is ranges between about 1 to 30 % by weight based on the weight of the ink-jet ink.

Claim 67. (Currently amended) The micron liquid thermosetting ink-jet ink according to claim ~~[[68]]~~56, additionally comprising one or more additives selected from the group consisting of surface active agents, ~~and/or~~ colloid stabilizers, rheology modifiers, pigments, and dyes, matting agents, solvents~~[[;]]~~, co-solvents, diluents ~~[[or]]~~ and any mixture thereof.

Claim 68. (Canceled)